54 CCT	108 ATA	162 GAT	216 CTG L	270 TTT F	324 CCC P	378 AAG K
၁၁၅	GAC	TCC	CCT	GTC V	ACC F	CTG Z
AGC	CTT	CTT	TCC	CTG	315 AAA TCC Z	342       351       360       369         TAC TGG GGG AAC AAA GGT GGA GTC AAC ATC TGC CTG         Y       W       G       N       I       C       L
45 GGC	99 AAT	153 CTC (	207 CTT L	252 261 GGG ATC CTC TTA G I L L	315 AAA K	369 ATC I
TTC	CTC	AGC	GAT GTG D V	CTC	ACT T	AAC N
36 CGT GGC TTC	90 CGG AAC	144 ATC ATA AGC	GAT D	ATC	306 CTG TCT ACT A	GTC V
36 CGT		144 ATC	198 ATG (	252 GGG G	306 CTG L	360 GGA G
27 GAC TTG GAA	AAC AAC	126 135 CAG GAA TTG AAC TCT GGG	TTC CTC	ATG CAG O	297 TAT ATC CAG ATT Y I Q I	GGT G
TTG		TCT	TTC	ATG M	CAG Q	AAA K
	81 CTG	135 AAC	189 AGT '	243 CGT R	297 ATC I	351 AAC N
CGT	CAG	TTG	AGC	GTC V	TAT Y	9 999
18 ACA CGT	CTT	GAA	180 ṛcg rgg	234 243 TCC CAT GTC CGT S H V R	288 TTG CCC	TGG W
	72 CTG				288 TTG L	342 TAC Y
CAT	GAC	TTG	GAC	AAG GTC K V	CAG CAT Q H	TTT GGG
CAG	AGT	GGT	AAT			TTT F
9 GCT	63 CTC	117 ATT	171 TTT	225 ATC I	279 TAT Y	333 CTG L
NNG AAG	CGA GCT	TAT GTT	၁၁၅	AGC TTC S F	AAG K	ACT GGC T
NNG	CGA	TAT	GCT GCC	AGC	GCC AAG A K	ACT T
5.						

FIGURE 1A

432 TCC S	486 TGT C	540 GGA G	594 ATT I	648 AAG K 702 CCC
ATT I	AAT N	TTT F	TCC	GCC A CCG
CAC	CAG Q	TGG W	GAA E	ATT I TTC F
423 CCC P	477 ATG M	531 ATC I	585 CGG R	639 AGC S 693 CTC L
CCT	GAG	ATT I	GTT V	CTC L CTA L
CTG L	CTG L	CTC	TTT F	CAG Q CGC R
414 CAC H	468 ATC I	522 GAC D	576 CAC H	630 GAC D 684 GGC
TGC	CGG R	CAC H	${f TTG}$	AAG K GAG E
AAC N	GAC D	GAC	999 9	GAG E CAG
405 ATC I	459 TTT F	513 CTG L	567 TTT F	621 TGG W 675 TTC
ATC	CAC H	ATC I	GAC	CTG L GAG E
AGC	GAG E	AAC	GAG E	660 6 6 6 6 6 6
396 GTC V	450 CTG L	504 CCA P	558 ATC I	612 GGT G 666 CTC L
TAT Y	CGG R	ATC	CGG R	TAC Y CTG L
TAC Y	CAG Q	GAC	TTT F	TGC C CCG
387 GGC G	441 TAC Y	495 CGA R	549 AAC N	603 CGG R 657 GAC D
TAT Y	AAC AAT N	9 999	ATG M	603 AAT CGG N R 657 CAT GAC H D
387 CTT TAT GGC L Y G	AAC	GAG	549 GAC ATG AAC D M N	AAA AAA K

FIGURE 1B

<i>c</i> .						
CGC R	810 GCT A	864 GGC G	918 ACG T	972 CCC P	1026 TCG S	1080
AAA K	TGT	AGG R	9 299	ATG M	1026 ACC TCG T S	7
AAA K	CCC	CTG	TCC	CTG L	I'CA S	
GAG	801 CAG Q	855 TCT S	909 GTC V	963 ATC GTC ( I V )	1017 TAC TCT Y	1071
AGT S	CGG R	$ ext{TTG}$	CCT	ATC I	1 TAC Y	<del>-</del>
ACC T	AAG K	TCC	900 CAC AAG H K	CTG	AGC	
GAC D	792 CTG L	846 TTC F	900 CAC H	954 CCG P	1008 GTC V	1062
TAT Y	AGG R	CAC H	GAC	TCT GCT S A	1008 ATG GTC M V	1
GAC	TGG W	TCA S	AGC	TCT	ATG	
AAC N	783 CTG L	837 GCG A	891 ATC I	945 GTG V	999 GAC D	1053
TCC	ATC I	CCG	၁၅၅	${f r}{f r}{f G}$	AAT N	7
AAC N	CGC R	CCG	TAC Y	CCA P	GAA	
AGG R	774 GAT D	828 ATA I	882 ACG T	936 AAG K	990 GTG V	1044
GAT D	ACC	CCC	ATG M	CTG L	ACC	-
TTT F	TGG W	ACT	CAC H	GAG	TGG	
AAG K	765 GCA A	819 GAC D	873 AGC S	927 ITG L	981 CTG L	1035
TAC Y	CCT P	CCC	AGC	GAC D	GAC D	7
ACC TAC AAG T Y K	765 AAG CCT GCA K P A	300 CCC	TAC AGC Y	TTC GAC	GAG GAC E D	

FIGURE 1C

# The first and th

AGC AGC CCG TGG GAC TGG ATT GGA CTG TAC AAG GTG GGG CTG CGG S S P W D W I G L Y K V G L R	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1188 GAA E	1242 ; ATA I	1296 GAA E	1350 A GAG 1404
CTG L	TCC	ACT		1 GGT G	CCA
999	GTC V	ACC	GTG V	$\operatorname{CTG}$	AGG
GTG V	1125 : AAG K	1179 CCT P	1233 ' GTG V	1287 : CCA P	1341 3 CGG 1395
AAG K	AGC	ATC I	1 TCT S	1 GAC D	AGG 1
TAC Y	GAC D	AAT N	CGT R	GAG	222
CTG L	1116 2 GGG G	1152 1161 1170 1179 1188  CTG AAC CAG GTT TAC ATC GAC ATC AGC AAT ATC CCT ACC ACT GAA  L N Q V Y I D I S N I P T T E	1224 ' CTG L	1260 1269 1278 1287 1296 TTC CAG ATC CCG CCT GGC TCC TTG AGG GAG GAC CCA CTG GGT GAA F Q I P P G S L R E D P L G E	1332 3 AAT 1386
GGA G	GTC	ATC I	1 AGT S	1 TTG L	1 GTG 1
ATT I	TGG W	GAC	AAC N	JOC So	GGA
TGG W	1107 GCC A	1161 : ATC I	1215 TAC AGC Y S	1269 1269 1 1269	1323 3 ATG 1377
GAC	TAT Y	TAC	TAC Y	CCT P	AGG
TGG W	TCC	GTT V	TAC Y	CCG	ລລອ
CCG	1098 GTG V	1152 CAG	1206 TGT C	1260 ; ATC I	1314 : TGA 1368
AGC S	TAC	AAC	CTC	CAG O	ATC I
AGC S	GAC D	CTG	CTC	TTC F	CAG Q
CCC	1089 AAT N	1143 AAC N	1197 TTT F	1251 . CCC . P	1305 5 CCA P 1359
GAC TTC CCC D F P	GTT	GAC	1197 1206 1215 1224 1233 1242 GAT GAG TTT CTC CTC TGT TAC TAC AGC AAC AGT CTG CGT TCT GTG GTG GGG ATA D E F L L C Y Y S N S L R S V V G I	AGA R	1305 1314 1323 1332 1341 1350 GCA CAG CCA CAG ATC TGA GCC AGG ATG GGA GTG AAT CCC AGG CGG AGG CCA GAG A Q P Q I 1359 1368 1377 1386 1395 1404
GAC D	1089 GAC GTT AAT D V N	1143 AGC GAC AAC S D N	GAT D	1251 AGC AGA CCC	GCA

### FIGURE 1D

1359 1368 1377 1386 1395 1404 CTG GCA GCC AGC TCT GCC TTT CCA CTG CCG GGA GTG CTG GGG GCC CAG CCT GGC

1449 1458	1485 1494 1503 1512 CAC TAC TCT CTG GAA TTA GCC GCT TAA ATA	1557 1566	1620	1674	1728	1782	1836
CCA GAG TGA GCT CTA		GTG TCA ACA GTG AAG	TTC TAG TCT	GC ATT CTT	CA TTT GTA	3G CAT CTC	CTT TCA GCA
	1503 TTA GCC G		1611 CCC CTC	1665 CAG GCC TGC	1701 1710 1719 GGC TGT CTG GGA GGG GAG ATG CTC ACA	1773 GAG TCT TGG	1827 TTT CTG
40	94	18	)2	se	.0	4	8
rc crc	FG GAA	CT AGT	SC TAC	se gca	ig gag	C CAG	G GGA
1440	1494	1548	1602	1656	1710	1764	1818
ATA CTC	TCT CTG	CCA GCT AGT	GAT TCC TAC	CAT TTG	GGA GGG	GGA TTC	GGT CTG
CAC	TCA	AAA	CTG	သည	CTG	GCT	GAG
1422 1431 1440	1485	1539	1593	1647 1656	1701	1755 1764	1809
CAG CCA AGT GTC GTC CAC ATA CTC CTC	CAC TAC	TGA GTG AAA	TCA TTT	CAC ATG CCC CAT TTG GCA	GGC TGT	AGC AGT GCT GGA TTC CAG	TGA GCA
AGT	CTC	ATG	GTC			GCA	GAG
1422	1476	1530	1584	1638	1692	1746	1800 1809 1818
CAG CCA	' TGC TCT CTC	GCT GAG	TTC TGC GTC	CCT GCC AGG	TGG GCC TCA	ACT GGT	CGT GAG GAG TGA GCA GAG GGT CTG GGA
AGA	ATT	GTT	CAG	AGT	TCC	TAG	၁၁၁
1413	1467	1521	1575	1629	1683	1737	1791
CCC CTG AAG	ACC AGG CTC	CAG GTT TTT	ACC TGG GGA	TGC CCA AGT	GTC GTG CCG	CAG GCT ACA	ATA GCT TGT

FIGURE 1E

1890 TTA	1944 CTC	1998 GAG	2052 CCA	2106 ACT	2160 GAG	2214 GGC	68 CA
1890 CTC TTA	1935 1944 AGC ACA ACC TTC CTC	1998 GAC AGA GAG	2052 CCT CCA	2106 CAG ACT	2160 CAG GAG	2214 GCA GGC	2268 TCT TCA
AGG C	CC I	AC A		CCAC			
	A A		Ä		T	S S	$\operatorname{GGT}$
1881 CTA GCC	1935 ACA	1989 CCT	2043 CCC	2097 TGG	2151 CCT	2205 GTG	2259 TGG
CTA	AGC	1989 GAT CCT	2043 AGT CCC ATG	2097 CTG TGG	2151 CAC CCT TGT	2205 AGA GTG ĢGG	2259 CCC TGG
CCT	၁၁၅	CCA	TTG	GAG			
1872 GCC	1926 TCG	1980 GTT		2088 AAG	2142 CTG	2196 GAC	2250 ATC '
1 GGG	1926 CCT TCG	1980 GAA GTT	2034 GGT AGC	2088 GTC AAG GAG	2142 CGT CTG TGC	2196 CGG GAC CTC	2250 AGG ATC TGG
1863 1872 GGG CAG AAT GGA GGG GCC	GGT	ATG	GTT				TGG 7
1863 AAT		1971 GAC TGC		2079 . CAA	2133 GAG	2187 ACC	
CAG	GAT	1 GAC	2025 GCT TCC	2070 2079 AGG AAG GGG TGA CAA GTG	2133 GGT GAG GTG	2187 TGG ACC CCC	2241 ACA TTT
999	GTT	TCT	TTC	999	GCA	သသ	AAG
1854 CTC AGT	1908 GAG CAG	1962 ATG GAG	2016 AGG	2070 AAG	2124 TTG	2178 CCC	
	1 GAG	1 ATG	2016 TCC AGG	2 AGG	2124 TCC TTG	2178 GGC CCC	2232 CAG`CTC
TGA	TAT	299	GGA	CTG	TGG	ACG	AAC
1845 . GTC	1899 GGT	1953 CAC	2007	2061 CAT			
1845 AAA GCA GTC	1899 CAT GGT	1953 CCT ACT CAC	2007 AAC TGG GAA	2061 CCC TGC CAT	2: CCA (	2169 TTG ACG	2223 AGA AGG GAG
AAA	၁၅၁	LOO	AAC .	222	2115 TTT CCA GGG	TCA	AGA ,

### FIGURE 1F

2322	2376	2430	2484	2538	
CCA GCA CTT	T CTG GGA	T ACT CCA	T TGT CCC	T GCA GGG	
13	67	21	75	29	
AT CC	CA CCT	3G GTT	AG AAT	AT TGT	
2313	23 <i>67</i>	2421	2475	2529	
CCA CAT	AAG ACA	CTG AGG	ATG AAG	TTA CAT	
TCC				CTG	A 3'
2304	2358	2412	2466	2520	2574
GGC CTG	TCC CAG GAG	GTC CTG GGA	CTG	TTG TGA	AAA
			AGC		AAA
CAT	TTT	TGT	GCA	GTT	AAA
2295	2349	2403	2457 2466	2511	2565 2574
TGG GGA	CAG CCC	CCA TCC	TCC CCC GCA AGC CTG TGT	CTG GCT	ACA CTT AAA AAA A 3
CTT	ອອວ	CTG		TGG	TTT .
2286	2340	2394	2448	2502	2556
<b>TAG</b> GGG	GTC ACT	CTT GTC	TGC ATA CTC	AGG CCA	GTG GCT
CTC	ATG	GTG	TGT	AGC	AGC
2277	2331	2385	2439	2493	2547
GAG AAC ACC	GCC TCC GCC	GCC TGC TCA	GCT CTG		ATT
AAC	TCC	TGC	GCT	2493 CTG GCT TCC	2547 GTA ATT ATT
GAG	၁၁၅	၁၁၅	GTT	CTG	GTA

### FIGURE 1G

D V L S P L S R	A E G E Y C V I A V Q G V L C E G D S R Q S R L L G L V R Y R L E H G G Q E H AC A L TL A Q R N G Q Y E	LFLYTHRRMAITGDDVSLDQIVPVSRDFTLEEVSPDGELY LIIQLHEKEQHVQDIIPINSHFRCVQEAEETLLI	 	
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### FIGURE 2A

### FIGURE 2B

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FIGURE 2C

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### FIGURE 2E

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359 S I	379 S L	919 н -	875 L M

Library	Lib Description	Abun	Pct Abun
PANCISM01	pancreas, islet cells, NORM, WM		
SCORNON01	d. 71 M. NORM	ν,	0.1907 -
BSTMNOT01	brain stem, 72 M	⊶,	0.1379
MUSCNOM01	skeletal muscle, WM	<b>⊣</b> (	0.1214
THP1NOT01	O)	7 -	0.0861
SYNORAT01		- ۲	0.0571
NERVMSM01		٦ ,	0.0478
BRSTNOT03	to BRSTTUTO2	7 6	0.0448
PENCNOT01	penis, corpus cavernosum 53 M	o -	
COLINIOT09	colon, 60 M match to Colonian	→ ,	
PROSNOTO	program of it, inaccin to coming to	<del>- 1</del>	0.0390
COLUMNOM 2	Prostate, os M, match to PROSTUTI2	Н	0.0336
COLINIO I I S	ding, 28 M	⊣	0.0311
SCOPNOR04	Drain tumor, astrocytoma, 47 M	2	0.0293
SCOKNOTO4	al cord, 32 M	_	0.0293
LEUKNO'F02		<b>~</b>	0.0292
COLNFET02	colon, fetal F	2	0.0286
THYRTOTOS	thyroid tumor, benign, 17 M	Н	0.0276
LNODNOTOS	Lymph nodes, 14 F	<del></del>	0.0271
THPIAZSO8	THP-1 promonocyte cell line, treated AZ, SUB	2	0.0269
UT'RSNOT08	uterus, endometrium, 35 F	<del></del>	0 0267
HEAANOT01	heart, coronary artery, 46 M	ا	0.0265
HEAONOT03	heart, aorta, 27 F		0.0265
BRAITUT13	brain tumor, meningioma, 68 M	·	0.0262
COTRNOT01	colon, transverse, Crohn's, 26 M	·	0.0260
		I	) 1

#### FIGURE 3A

BONRFET01	rib, fetal M	<del>-</del>	0.0059
SINTFET03	small intestine, fetal F	٠,	0.0233
THYMNON04	thymus, 3 M, NORM	<b>1</b> -	0.0209
STOMFET01	Stomach fotal R	, ⊢	0.025/
COMOTOWN IM	ï	<b>→</b>	0.0255
ZO.I.ONIW X T.I.	<pre>Lymphocytes (non-adher PBMNC), M/F</pre>	_	0.0254
HEAONOT05	heart, aorta, 17 F	$\leftarrow$	0.0252
UTRSTUT04	uterine tumor, leiomyoma, 34 F	~	0.0250
LUNGTUT13	lung tumor, adenocarcinoma, 47 M	- 1	0.0249
PONSAZT01	brain, pons, Alzheimer's, 74 M	· <del></del> 1	0.0249
TMLR3DT02	lymphocytes (non-adher PBMNC), M/F, 72-hr MLR	_	0.0246
PROSNOT15	prostate, 66 M, match to PROSTUT10	⊣	0.0241
SINJNOT02	small intestine, jejunum, 8 F	⊣	0.0241
UCMCNOT02	mononuclear cells	-	0.0236
LIVSFEM03	liver/spleen, fetal M, NORM, WM	7	0.0214
BRSTNOM02	breast, F, NORM, WM		0.0206
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	7	0.0197
COLNTUT03	colon tumor, 62 M, match to COLNNOT16	Н	0.0196
THYMNOT02	thymus, 3 M	Н	0.0194
HNT3AZT01	hNT2 cell line, teratocarcinoma, treated AZ	Н	0.0191
NEUTLPT01	granulocytes, periph blood, M/F, treated LPS	1	0.0173
MUSCNOT07	muscle, forearm, 38 F	Н	0.0154
COLNNOT11	colon, 60 M, match to COLNTUT16	<del></del>	0.0149
NGANNOT01	ganglioneuroma, 9 M	7	0.0146
PROSTUT05	prostate tumor, 69 M, match to PROSNOT07	Ţ	0.0145
THYRNOT03	thyroid tumor, adenoma, 28 F	<b>~</b>	0.0138
SPLNNOT04	spleen, 2 M	7	0.0128

#### FIGURE 3B

KIDNNOT05	kidnev. neonatal F	<u></u>	0.0106
EOCTUEM02	occinontile humorocinontilio 40 M	+ -	0.0100
ECSTREIOS	eosinopuits, nypereosinopuitta, 40 m	<b>-</b>	0.0105
OVARTUT01	ovarian tumor, 43 F, match to OVARNOT03	$\vdash$	0.0103
UTRPNOM01	uterus, F, NORM, WM	<del>,</del>	0.0101
MELANOM01	melanocytes, M, NORM, WM	Н	9600.0
BRSTTUT01	breast tumor, 55 F, match to BRSTNOT02	7	0.0095
BRAINOM01	brain, infant F, NORM, WM	7	0.0089
CARDFEM01	heart, fetal, NORM, WM	7	0.0082
UTRSNOT02	uterus, 34 F	_	0.0078
LUNGFET03	lung, fetal F	-	0.0069
PLACNOM02	placenta, neonatal F, NORM, WM	_	0.0056
LIVSFEM02	liver/spleen, fetal M, NORM, WM	2	0.0053

FIGURE 3C